

Title (en)
Process for producing polymethacrylimid foams

Title (de)
Verfahren zur Herstellung von Polymethacrylimid-Schaumstoffen

Title (fr)
Procédé de préparation de mousses de polyméthacrylimide

Publication
EP 0874019 B1 20031126 (DE)

Application
EP 98106819 A 19980415

Priority
DE 19717483 A 19970425

Abstract (en)
[origin: EP0874019A2] A process for the production of polymethacrylimide (PMAI) foam comprises (A) making a copolymer by polymerisation in presence of radical initiator(s) etc., starting from (a) 40-60 wt% methacrylonitrile, 60-40 wt% methacrylic acid and optionally up to 20 wt% (based on nitrile plus acid) other mono-vinyl monomers, (b) 0.5-8 wt% blowing agent consisting of formamide or monomethylformamide and a 3-8C monohydric aliphatic alcohol, and (c) a crosslinker system containing (c1) 0.005-5 wt% radically polymerisable vinyl compound with at least 2 double bonds and (c2) 1-5 wt% magnesium oxide dissolved in the monomer mixture, and (B) expanding a block of this polymer at 200-260 degrees C and then subjecting the foam to a 2-stage heat treatment for 2-6 hours at 100-130 degrees C followed by 32-64 hours at 180-220 degrees C. Also claimed is (i) PMAI foam obtained by this process and (ii) a prepreg with a core of this PMAI foam.

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